PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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| TRANSMITTAL LETTER TO THE UNITED STATES | ATTORNEY'S DOCKET NUMBER | | |
|--|---|--|--|
| DESIGNATED/ELECTED OFFICE (DO/FO/US) | 514572001800 | | |
| CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/559,951 | | |
| INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE | PRIORITY DATE CLAIMED | | |
| PCT/CN2003/000335 9 May 2003 | 9 May 2003 | | |
| TITLE OF INVENTION METHODS AND COMPOSITIONS FOR OPTIMIZING MULTIPLEX PCR F | PRIMERS | | |
| APPLICANT(S) FOR DO/EO/US | | | |
| Shengce TAO et al. | 11C) the following there and the state of | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/ | | | |
| 1. This is a FIRST submission of items concerning a submission under 35 U. | | | |
| 2. X This is a SECOND or SUBSEQUENT submission of items concerning a start of the s | | | |
| This is an express request to begin national examination procedures (35 Linclude items (5), (6), (9) and (21) indicated below. | J.S.C. 371(t)). The submission must | | |
| 4. The US has been elected (Article 31). | | | |
| 5. A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) | | | |
| a. is attached hereto (required only if not communicated by the Internatio | nal Bureau). | | |
| b. has been communicated by the International Bureau. | | | |
| c. is not required, as the application was filed in the United States Received | | | |
| 6. An English language translation of the International Application as filed (35 | 5 U.S.C. 371(c)(2)). | | |
| a. is attached hereto. | | | |
| b. has been previously submitted under 35 U.S.C. 154(d)(4). | | | |
| 7. Amendments to the claims of the International Application under PCT Artic | | | |
| a. are attached hereto (required only if not communicated by the Internat | tional Bureau). | | |
| b. have been communicated by the International Bureau. | | | |
| c. have not been made; however, the time limit for making such amendm | nents has NOT expired. | | |
| d. have not been made and will not be made. | | | |
| 8. An English language translation of the amendments to the claims under P | CT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | | |
| An English language translation of the annexes of the International Prelim Article 36 (35 U.S.C. 371(c)(5)). | inary Examination Report under PCT | | |
| Items 11 to 20 below concern document(s) or information included: | | | |
| 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | | |
| 12. An assignment document for recording. A separate cover sheet in compli | ance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. A preliminary amendment. | | | |
| 14. An Application Data Sheet under 37 CFR 1.76. | | | |
| 15. A substitute specification. | | | |
| 16. A power of attorney and/or change of address letter. | | | |
| A computer-readable form of the sequence listing in accordance with P (1 CD in CRF format containing Sequence Listing) | CT Rule 13 <i>ter</i> .2 and 37 CFR 1.821 – 1.825. | | |
| 18. A second copy of the published International Application under 35 U.S. | C. 154(d)(4). | | |
| 19. A second copy of the English language translation of the international a | application under 35 U.S.C. 154(d)(4). | | |
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| 20 | O. x Other i | items or informa | | PC1/CN2 | U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. A 10/559,951 PCT/CN2003/000335 | | | ATTORNEY'S DOCKET NUMBER 514572001800 | | |
|--|---|---|--|---|--|---|-------------------------------------|---------------------------------------|------------------|--|
| | | items of imornia | w/Powe (3 page | f Notification of Misser of Attorney (2 pages); Statement to Supece Listing (6 pages) | es); Res pport Fili | ponse to Notificing and Submiss | ation of Missin sion, etc. (2 pa | ig Re | quirements, etc. | |
| | The follo | owing fees have | e been submitte | d | | | CALCULATIO | NS | PTO USEONLY | |
| 2 | | | | | | \$ | • | | | |
| If | 22. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | \$ | | | | | |
| S | the written opin IPEA/US i Search fee (37 C Internation International Sea previously | ndicates all claims FR 1.445(a)(2)) ha nal Searching Auth rch Report prepare communicated to | or the international satisfy provisions of second paid on the orityed by an ISA other the US by the IB | preliminary examination of PCT Article 33(1)-(4) international application than the US and provide | n to the U | \$0 SPTO as an \$100 Office or | \$ | | | |
| | | TOTAL OF 21, 22 | and 23 = | | | | \$ 0 | .00 | | |
| | sequen electro | dditional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | |
| Т | otal Sheets | Extra Sheets | | umber of each additional 50 or fraction RATE thereof (round up to a whole number) | | | | | | |
| | - 100 = | /50 = | | x \$250.00 | | | \$ | | | |
| | | | | of the search fee, examination fee, or the oath or declaration and enational stage (37 CFR 1.492(h)). | | | \$ 130 | .00 | | |
| | CLAIMS | NUI | MBER FILED | ED NUMBER EXTRA RATE | | RATE | | | | |
| _ | Total clair | ns | - 20 = | | | | | | | |
| _ | Independent | <u> </u> | - 3 = | | X | | | | | |
| <u> </u> | MULTIPLE DEPENDENT CLAIM(S) (if applicable) + TOTAL OF ABOVE CALCULATIONS = | | | | | 400 | | | | |
| <u> </u> | | | | | | \$ 130.00 | | | | |
| | X Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. | | | | 65 | 5.00 | | | | |
| | | | | | | SUBTOTAL = | \$ 65 | 00. | | |
| | Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED = | | | | | \$ | | | | |
| | | | | | | \$ | | 65.00 | | |
| | | | | | | \$ | | | | |
| | | | | | | \$ | | 65.00 | | |
| 6 LLA | ANDGRA 00000034 031952 10559951 | | | | | Amount to be refunded: | \$ | | | |
| 7 | 65.00 D | | | | | | Amount to be charged | \$ | | |

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|---|--------------------------------|--|--------------------------------------|--|--|
| a. A check in the amount of \$ | to cove | er the above fees is e | nclosed. | | |
| b. X Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed. | 03-1952 | in the amount of \$ | 65.00 | to cover the above fees. | |
| c. X The Commissioner is hereby authorized to characteristic Account No. 03-1952 . A dup | | | | redit any overpayment to Deposit | |
| d. Fees are to be charged to a credit card. WA should not be included on this form. Prov | RNING: Infor | mation on this form m d information and auti | ay become publ horization on PT | ic. Credit card information O-2038 | |
| NOTE: Where an appropriate time limit under 37 C filed an granted to restore the International Applic | | | tition to revive | (37 CFR 1.137(a) or (b)) must be | |
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| SEND ALL CORRESPONDENCE TO: | | | | | |
| SEND ALL CORRESPONDENCE TO. | SIGN | SIGNATURE | | | |
| Peng Chen | | | | | |
| MORRISON & FOERSTER LLP 12531 High Bluff Drive | | | Pen | g Chen | |
| Suite 100 | | NAN | | g Chen | |
| San Diego, California 92130-2040 | | | | | |
| (858) 720-5117 | | | | | |
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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/559,951 | 4 | NAL APPLICATION NO. CT/CN2003/0003 | | ATTORNEY'S DOCKET NUMBER 514572001800 | |
| (and the second | | | | 170 gr. 3 72 | |
| I hereby certify that this correspondence is being de in an envelope addressed to: Mail Stop PCT, Comr | posited with the missioner for | the U.S. Postal Service Patents, P.O. Box 145 | e as Express Ma 50, Alexandria, V | ail, Airbill No. EV 743883727 US. // /A 22313-1450, on the date | |
| shown below. Dated: June 27, 2006 Signatur | re:/ | e BL | (Dia | ane Blevins) | |
| | | | | | |



25225

SUITE 100

United States Patent and Trademark Office

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U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO. 10/559,951 Shengce Tao 514572001800

MORRISON & FOERSTER LLP 12531 HIGH BLUFF DRIVE

INTERNATIONAL APPLICATION NO. PCT/CN03/00335 I.A. FILING DATE PRIORITY DATE 095/09/2003

CONFIRMATION NO. 1502 371 FORMALITIES LETTER *OC000000018668191*

Date Mailed: 05/03/2006

SAN DIEGO, CA 92130-2040

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 12/09/2005
- Copy of the International Search Report filed on 12/09/2005
- Preliminary Amendments filed on 12/09/2005
- U.S. Basic National Fees filed on 12/09/2005
- Specification filed on 12/09/2005
- Claims filed on 12/09/2005
- Abstracts filed on 12/09/2005
- Drawings filed on 12/09/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

- This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c) Applicant must provide an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/559.951 | PCT/CN03/00335 | 514572001800 |

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Express Mail Label No.: EV 743 883 727 US

Date of Deposit: June 2,2006

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail PostOffice to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Diane Blevins

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Shengce TAO et al.

Application No.: 10/559,951 Confirmation No.: 1502

International Filing Date: May 9, 2003 Art Unit: Not Yet Assigned

For: METHODS AND COMPOSITIONS FOR

OPTIMIZING MULTIPLEX PCR PRIMERS

Examiner: Not Yet Assigned

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

MAIL STOP PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This is in response to the Notification of Missing Requirements Under 35 U.S.C. 371 In The United States Designated/Elected Office (DO/EO/US), mailed May 3, 2006, for which a response is due on July 3, 2006. Accordingly, this response is timely filed.

Please enter the following Sequence Listing and remarks.

In the Sequence Listing:

Please insert the attached paper copy of the Sequence Listing (pages 1-6) after the Abstract in the above-mentioned application. A computer readable form copy (labeled "CRF") of the Sequence Listing accompanies this response.

REMARKS

The undersigned hereby states that the computer readable form copy (labeled "CRF") of the Sequence Listing and the paper copy of the Sequence Listing (pages 1-6), submitted in accordance with 37 C.F.R. § 1.825(a) and (b), respectively, are the same and contain no new matter. Accordingly, entry of the Sequence Listing into the above-captioned case is respectfully requested.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. <u>514572001800</u>. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Date: June 2, 2006

By:

Peng Chen

Registration No. 43,543

Morrison & Foerster LLP 12531 High Bluff Dr.,

Suite 100

San Diego, CA 92130-2040

Telephone: (858) 720-5117 Facsimile: (858) 720-5125